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Indian Standard

STEEL — CONVERSION OF ELONGATION VALUES

PART 2 AUSTENITIC STEELS

(Second Revision)

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Indian Standard

**STEEL — CONVERSION OF ELONGATION
VALUES**

PART 2 AUSTENITIC STEELS

(Second Revision)

NATIONAL FOREWORD

This Indian Standard (Part 2) (Second Revision), which is identical with ISO 2566/2 : 1984 'Steel — Conversion of elongation values — Part 2 : Austenitic steels', issued by the International Organization for Standardization (ISO), was adopted by the Bureau of Indian Standards on 24 November 1989 on the recommendations of the Mechanical Testing of Metals Sectional Committee (MTD 3) and approval of the Metallurgical Engineering Division Council.

IS 3803 was first published in 1961 and subsequently revised in 1974. In this second revision, IS 3803 has been brought in line with ISO 2566, and has been issued in two parts identical to the two parts of ISO 2566. This Part 2 covers conversion of elongation values for austenitic steels while Part 1 covers 'Conversion of elongation values for carbon and low alloy steels'.

The text of ISO standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear, referring to this standard, they should be read as Indian Standard.
- b) Wherever the words 'ISO 2566' appear, referring to this standard, they should be read as 'IS 3803'.
- c) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use point (.) on the base line as the decimal marker.

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0 Introduction

Several different gauge lengths are commonly in use for the determination of percentage elongation of steels in tensile testing. Fixed gauge lengths of 50, 80, 100 and 200 mm are used; proportional gauge lengths of $k\sqrt{S_0}$ are also used for flat and round test pieces, where k may be one of a number of values, i.e. 4; 5,65; 8,16; and 11,3.

The value $5,65\sqrt{S_0}$ is adopted as the internationally preferred proportional gauge length.

Arising from this choice and the existence of specifications stipulating minimum percentage elongations on different gauge lengths, a growing need has been evident for an International Standard which could be used to convert test results into values based on the different gauge lengths. This part of ISO 2566 accordingly includes tables of conversion factors, tables of actual conversions for some of the most commonly used gauge lengths and elongation values, and figures which may also be used for such conversions. When using these conversions, however, note should be taken of the limitations on their applicability as stated in clause 1.

While, as indicated, the conversions are considered to be reliable within the stated limitations, because of the various factors influencing the determination of percentage elongations, they shall be used for acceptance purposes only by agreement between the customer and supplier.

In cases of dispute, the elongation shall be determined on the gauge length stated in the relevant specification.

1 Scope and field of application

This part of ISO 2566 specifies a method of converting room temperature percentage elongations after fracture obtained on various proportional and non-proportional gauge lengths to other gauge lengths.

The formula (see clause 4) on which conversions are based is considered to be reliable when applied to austenitic stainless steels within the tensile strength range 450 to 750 N/mm² and in the solution treated condition.

These conversions are not applicable to

- a) cold reduced steels;
- b) quenched and tempered steels;
- c) non-austenitic steels.

Neither should they be used where the gauge length exceeds $25\sqrt{S_0}$ or where the width to thickness ratio of the test piece exceeds 20.

Care should be exercised in the case of strip under 3 mm thickness, as the index in the formula given in clause 4 increases with decreasing thickness; the value to be used shall be the subject of agreement between the customer and the supplier.

2 Symbols

In this part of ISO 2566, the symbols shown in table 1 are used.

Table 1 — List of symbols

| Symbol | Description |
|--------|---|
| A | Percentage elongation on gauge length, L_0 , after fracture, obtained on test |
| A_r | Percentage elongation on a different gauge length, required by conversion |
| d | Diameter of test piece |
| L_0 | Original gauge length |
| S_0 | Original cross-sectional area of test piece |

3 Definitions

For the purpose of this part of ISO 2566, the following definitions apply:

3.1 gauge length: Any length of the parallel portion of the test piece used for measurement of strain.

The term is hereafter used in this part of ISO 2566 to denote the original gauge length, L_0 , marked on the test piece for the determination of percentage elongation after fracture, A .

3.2 proportional gauge length: A gauge length having a specified relation to the square root of the cross-sectional area, for example $5,65\sqrt{S_0}$.

3.3 non-proportional gauge length: A gauge length not specifically related to the cross-sectional area of the test piece, usually expressed in a given dimension, for example 50 mm.

4 Basic formula

The data contained in this part of ISO 2566 are based on a formula obtained from a statistical assessment of international test results, which, in a simplified form, can be expressed as

$$A_r = 1,25A \left(\frac{\sqrt{S_0}}{L_0} \right)^{0,127}$$

where

A_r is the required elongation on gauge length L_0 ;

A is the elongation on a gauge length of $5,65\sqrt{S_0}$ which is the internationally accepted gauge length;

S_0 and L_0 are defined in table 1.

Expressed in terms of $4\sqrt{S_0}$ the formula becomes

$$A_r = 1,19A \left(\frac{\sqrt{S_0}}{L_0} \right)^{0,127}$$

where A is the elongation on a gauge length of $4\sqrt{S_0}$.

Tables 2 to 22 and figures 1 to 5 have been prepared on the basis of the above formulae.

5 Conversion from one proportional gauge length to another proportional gauge length

Simple multiplying factors based on the formula are used for such conversions, and the relationships between a number of the more widely used proportional gauge lengths are given in table 2. Detailed conversions of elongations obtained on $4\sqrt{S_0}$ to $5,65\sqrt{S_0}$ are given in table 6.

6 Conversion from one non-proportional gauge length to another non-proportional gauge length for test pieces of equal cross-sectional area

The conversion of elongation values of different fixed gauge lengths on test pieces of equal cross-sectional area are also made by simple factors. Conversion factors for gauge lengths of 50, 80, 100 and 200 mm are given in table 3.

7 Conversion from a proportional gauge length to a non-proportional gauge length

The conversion factors are variable according to the cross-sectional area of the non-proportional test piece. Table 4 gives the multiplying factors for conversion from elongation on $5,65\sqrt{S_0}$ to the equivalent on fixed gauge lengths of 50, 80, 100 and 200 mm for a range of cross-sectional areas. For conversions in the reverse direction, i.e. elongation on a fixed gauge length to the equivalent of $5,65\sqrt{S_0}$, the reciprocal of the factors is used.

Example:

Elongation of 20 % on $5,65\sqrt{S_0}$ is equivalent to $20 \times 1,046 = 20,9$ % on a 25 mm wide test piece of 6 mm thickness with a 50 mm gauge length (see table 4).

From the example shown it will be seen that conversions involving other proportional gauge lengths can be obtained by prior or subsequent use of the factors shown in table 2.

Tables 7 to 10 can be used to obtain some of these conversions, whilst tables 15 to 18 can be used to obtain elongations on fixed gauge lengths corresponding to $5,65\sqrt{S_0}$.

Similarly, tables 11 to 14 can be used for conversion to $4\sqrt{S_0}$ and tables 19 to 22 for elongations on fixed gauge lengths corresponding to $4\sqrt{S_0}$.

8 Conversion from a non-proportional gauge length to another non-proportional gauge length for test pieces of different cross-sectional areas

It is preferable for this calculation to be made in two stages with an initial conversion to $5,65\sqrt{S_0}$.

Example:

Elongation of 24 % on 200 mm for a 40 mm \times 15 mm test piece in terms of equivalent on a 30 mm \times 10 mm test piece with gauge lengths equal to 200, 100, and 50 mm.

$$24 \times 1/0,957 = 25,1 \text{ % on } 5,65\sqrt{S_0} \text{ (see table 4)}$$

$$25,1 \times 0,916 = 23,0 \text{ % on } 30 \text{ mm} \times 10 \text{ mm with } 200 \text{ mm gauge length}$$

$$25,1 \times 1,000 = 25,1 \text{ % on } 30 \text{ mm} \times 10 \text{ mm with } 100 \text{ mm gauge length}$$

$$25,1 \times 1,093 = 27,4 \text{ % on } 30 \text{ mm} \times 10 \text{ mm with } 50 \text{ mm gauge length}$$

Elongation on other proportional gauge lengths can be obtained by using the factors given in table 2.

9 Use of figures 1 to 5

9.1 Figures 1 to 5 may be used as an alternative quick method to obtain elongation conversions.

9.2 Figures 1 to 4 may be used for conversions between $5,65\sqrt{S_0}$ and 50 mm, $5,65\sqrt{S_0}$ and 200 mm, $4\sqrt{S_0}$ and 50 mm, and $4\sqrt{S_0}$ and 200 mm gauge lengths, respectively.

Example:

To find the equivalent elongation on $5,65\sqrt{S_0}$ and $4\sqrt{S_0}$ to an elongation of 25 % on a 200 mm gauge length of a 25 mm × 12,5 mm test piece of cross-sectional area 312,5 mm².

The intersection of this ordinate with the abscissa representing an elongation of 25 % on a 200 mm gauge length lies on the sloping line representing an elongation of 27,2 % on $5,65\sqrt{S_0}$ on figure 2 and at a position relative to the sloping lines on figure 4 approximating to an elongation of 28,8 % on $4\sqrt{S_0}$.

9.3 Figure 5 may be used for the calculation of all elongation conversions.

The formula given in clause 4 may be rewritten as

$$A_2 = A_1 \left(\frac{K_1}{K_2} \right)^{0,127}$$

$$= \lambda_{1,2} \times A_1$$

where K_1 and K_2 designate the proportionality ratios of any two test pieces.

$$K_1 = \frac{L_1}{\sqrt{S_1}}$$

$$K_2 = \frac{L_2}{\sqrt{S_2}}$$

Figure 5 shows the values of $\lambda_{1,2} = (K_1/K_2)^{0,127}$.

To use figure 5 it is necessary to perform the following operations:

- calculate the value of proportionality $K_1 = (L_1/\sqrt{S_1})$ and $(K_2 = L_2/\sqrt{S_2})$ for two test pieces;
- read graphically the coefficient $\lambda_{1,2} = (K_1/K_2)^{0,127}$;
- the elongation obtained is $A_2 = \lambda_{1,2} \times A_1$.

Example:

Elongation of 24 % on 200 mm for a 40 mm × 15 mm test piece in terms of equivalent on a 30 mm × 10 mm test piece with a gauge length equal to 100 mm.

$$a) K_1 = \frac{L_1}{\sqrt{S_1}} = \frac{200}{\sqrt{600}} = 8,16$$

$$K_2 = \frac{L_2}{\sqrt{S_2}} = \frac{100}{\sqrt{300}} = 5,77$$

b) From figure 5, $\lambda_{1,2} = 1,04$.

c) Elongation required is $24 \times 1,04 = 25,0 \%$.

Table 2 — Conversion factors: Proportional gauge lengths

| Conversion from: | Factor for conversion to: | | | | | | |
|------------------|---------------------------|------------------|------------------|------------------|-------|-------|-------|
| | $4\sqrt{S_0}$ | $5,65\sqrt{S_0}$ | $8,16\sqrt{S_0}$ | $11,3\sqrt{S_0}$ | $4d$ | $5d$ | $8d$ |
| $4\sqrt{S_0}$ | 1,000 | 0,957 | 0,913 | 0,876 | 0,985 | 0,957 | 0,902 |
| $5,65\sqrt{S_0}$ | 1,045 | 1,000 | 0,954 | 0,916 | 1,029 | 1,000 | 0,942 |
| $8,16\sqrt{S_0}$ | 1,095 | 1,048 | 1,000 | 0,959 | 1,078 | 1,048 | 0,987 |
| $11,3\sqrt{S_0}$ | 1,141 | 1,092 | 1,042 | 1,000 | 1,124 | 1,092 | 1,029 |
| $4d$ | 1,015 | 0,972 | 0,928 | 0,890 | 1,000 | 0,972 | 0,916 |
| $5d$ | 1,045 | 1,000 | 0,954 | 0,916 | 1,029 | 1,000 | 0,942 |
| $8d$ | 1,109 | 1,061 | 1,013 | 0,972 | 1,092 | 1,062 | 1,000 |

Table 3 — Conversion factors:¹⁾ Non-proportional gauge lengths

| Conversion from: | Factor for conversion to: | | | |
|------------------|---------------------------|-------|--------|--------|
| | 50 mm | 80 mm | 100 mm | 200 mm |
| 50 mm | 1,000 | 0,942 | 0,916 | 0,839 |
| 80 mm | 1,062 | 1,000 | 0,972 | 0,890 |
| 100 mm | 1,092 | 1,029 | 1,000 | 0,916 |
| 200 mm | 1,193 | 1,123 | 1,092 | 1,000 |

1) Provided cross-sectional areas are the same.

Table 4 — Conversion factors from $5,65\sqrt{S_0}$ to non-proportional gauge lengths

Factors shown under "non-proportional gauge lengths" give the value of

$$1,25 \left(\frac{\sqrt{S_0}}{L_0} \right)^{0,127}$$

To convert from values on a gauge length of $5,65\sqrt{S_0}$ to a non-proportional gauge length, multiply by the appropriate factor.

To convert from values on a non-proportional gauge length to $5,65\sqrt{S_0}$, divide by the appropriate factor.

See also figures 1 and 2.

| Cross-sectional area of test piece | Factor for non-proportional gauge length of: | | | |
|---------------------------------------|--|--------|-------|-------|
| | 200 mm | 100 mm | 80 mm | 50 mm |
| mm ² | | | | |
| 5 | 0,706 | 0,771 | 0,794 | 0,842 |
| 10 | 0,738 | 0,806 | 0,829 | 0,880 |
| 15 | 0,757 | 0,827 | 0,851 | 0,903 |
| 20 | 0,771 | 0,842 | 0,867 | 0,920 |
| 25 | 0,782 | 0,854 | 0,879 | 0,933 |
| 30 | 0,792 | 0,864 | 0,889 | 0,944 |
| 35 | 0,779 | 0,873 | 0,898 | 0,953 |
| 40 | 0,806 | 0,880 | 0,906 | 0,961 |
| 45 | 0,812 | 0,887 | 0,912 | 0,969 |
| 50 | 0,818 | 0,893 | 0,919 | 0,975 |
| 55 | 0,823 | 0,898 | 0,924 | 0,981 |
| 60 | 0,827 | 0,903 | 0,929 | 0,986 |
| 70 | 0,835 | 0,912 | 0,938 | 0,996 |
| 80 | 0,842 | 0,920 | 0,946 | 1,006 |
| 90 | 0,849 | 0,927 | 0,953 | 1,012 |
| 100 | 0,854 | 0,933 | 0,960 | 1,019 |
| 110 | 0,860 | 0,939 | 0,966 | 1,025 |
| 120 | 0,864 | 0,944 | 0,971 | 1,031 |
| 130 | 0,869 | 0,949 | 0,976 | 1,036 |
| 140 | 0,873 | 0,953 | 0,981 | 1,041 |
| 150 | 0,877 | 0,957 | 0,985 | 1,045 |
| 160 | 0,880 | 0,961 | 0,989 | 1,050 |
| 170 | 0,884 | 0,965 | 0,993 | 1,054 |
| 180 | 0,887 | 0,969 | 0,996 | 1,058 |
| 190 | 0,890 | 0,972 | 1,000 | 1,061 |
| 200 | 0,893 | 0,975 | 1,003 | 1,065 |
| 210 | 0,896 | 0,978 | 1,006 | 1,068 |
| 220 | 0,898 | 0,981 | 1,009 | 1,071 |
| 230 | 0,901 | 0,984 | 1,012 | 1,074 |
| 240 | 0,903 | 0,986 | 1,015 | 1,077 |
| 250 | 0,906 | 0,989 | 1,017 | 1,080 |
| 260 | 0,908 | 0,991 | 1,020 | 1,083 |
| 270 | 0,910 | 0,994 | 1,022 | 1,085 |
| 280 | 0,912 | 0,996 | 1,025 | 1,088 |
| 290 | 0,914 | 0,998 | 1,027 | 1,090 |
| 300 | 0,916 | 1,000 | 1,029 | 1,093 |
| 310 | 0,918 | 1,003 | 1,031 | 1,095 |
| 320 | 0,920 | 1,005 | 1,033 | 1,097 |
| 330 | 0,922 | 1,007 | 1,035 | 1,099 |
| 340 | 0,923 | 1,008 | 1,037 | 1,101 |
| 350 | 0,925 | 1,010 | 1,039 | 1,103 |
| 360 | 0,927 | 1,012 | 1,041 | 1,105 |
| 370 | 0,928 | 1,014 | 1,043 | 1,107 |
| 380 | 0,930 | 1,016 | 1,045 | 1,109 |
| 390 | 0,932 | 1,017 | 1,047 | 1,111 |

Table 4 (concluded) — Conversion factors from $5,65\sqrt{S_0}$ to non-proportional gauge lengths

| Cross-sectional area of test piece | Factor for non-proportional gauge length of: | | | |
|---------------------------------------|--|--------|-------|-------|
| | 200 mm | 100 mm | 80 mm | 50 mm |
| 400 | 0,933 | 1,019 | 1,048 | 1,113 |
| 410 | 0,935 | 1,021 | 1,050 | 1,114 |
| 420 | 0,936 | 1,022 | 1,051 | 1,116 |
| 430 | 0,937 | 1,024 | 1,053 | 1,118 |
| 440 | 0,939 | 1,025 | 1,055 | 1,119 |
| 450 | 0,940 | 1,027 | 1,056 | 1,121 |
| 460 | 0,941 | 1,028 | 1,058 | 1,123 |
| 470 | 0,943 | 1,029 | 1,059 | 1,124 |
| 480 | 0,944 | 1,031 | 1,060 | 1,126 |
| 490 | 0,945 | 1,032 | 1,062 | 1,127 |
| 500 | 0,946 | 1,033 | 1,063 | 1,129 |
| 550 | 0,952 | 1,040 | 1,070 | 1,135 |
| 600 | 0,957 | 1,045 | 1,076 | 1,142 |
| 650 | 0,962 | 1,051 | 1,081 | 1,148 |
| 700 | 0,967 | 1,056 | 1,086 | 1,153 |
| 750 | 0,971 | 1,060 | 1,091 | 1,158 |
| 800 | 0,975 | 1,065 | 1,095 | 1,163 |
| 850 | 0,979 | 1,069 | 1,100 | 1,167 |
| 900 | 0,982 | 1,073 | 1,104 | 1,171 |
| 950 | 0,986 | 1,076 | 1,107 | 1,176 |
| 1 000 | 0,989 | 1,080 | 1,111 | 1,179 |
| 1 050 | 0,992 | 1,083 | 1,114 | 1,183 |
| 1 100 | 0,995 | 1,087 | 1,118 | 1,187 |
| 1 150 | 0,998 | 1,090 | 1,121 | 1,190 |
| 1 200 | 1,000 | 1,093 | 1,124 | 1,193 |
| 1 250 | 1,003 | 1,095 | 1,127 | 1,196 |
| 1 300 | 1,006 | 1,098 | 1,130 | 1,199 |
| 1 350 | 1,008 | 1,101 | 1,132 | 1,202 |
| 1 400 | 1,010 | 1,103 | 1,135 | 1,205 |
| 1 450 | 1,013 | 1,106 | 1,138 | 1,208 |
| 1 500 | 1,015 | 1,108 | 1,140 | 1,210 |
| 1 550 | 1,017 | 1,110 | 1,142 | 1,213 |
| 1 600 | 1,019 | 1,113 | 1,145 | 1,215 |
| 1 650 | 1,021 | 1,115 | 1,147 | 1,217 |
| 1 700 | 1,023 | 1,117 | 1,149 | 1,220 |
| 1 750 | 1,025 | 1,119 | 1,151 | 1,222 |
| 1 800 | 1,027 | 1,121 | 1,153 | 1,224 |
| 1 850 | 1,028 | 1,123 | 1,155 | 1,226 |
| 1 900 | 1,030 | 1,125 | 1,157 | 1,228 |
| 1 950 | 1,032 | 1,127 | 1,159 | 1,230 |
| 2 000 | 1,033 | 1,129 | 1,161 | 1,232 |
| 2 050 | 1,035 | 1,130 | 1,163 | 1,234 |
| 2 100 | 1,037 | 1,132 | 1,165 | 1,236 |
| 2 150 | 1,038 | 1,134 | 1,166 | 1,238 |
| 2 200 | 1,040 | 1,135 | 1,168 | 1,240 |
| 2 250 | 1,041 | 1,137 | 1,170 | 1,242 |
| 2 300 | 1,043 | 1,139 | 1,171 | 1,243 |
| 2 350 | 1,044 | 1,140 | 1,173 | 1,245 |
| 2 400 | 1,045 | 1,142 | 1,175 | 1,247 |
| 2 450 | 1,047 | 1,143 | 1,176 | 1,248 |
| 2 500 | 1,048 | 1,145 | 1,178 | 1,250 |
| 2 550 | 1,050 | 1,146 | 1,179 | 1,252 |
| 2 600 | 1,051 | 1,148 | 1,181 | 1,253 |
| 2 650 | 1,052 | 1,149 | 1,182 | 1,255 |
| 2 700 | 1,053 | 1,150 | 1,183 | 1,256 |
| 2 750 | 1,055 | 1,152 | 1,185 | 1,258 |
| 2 800 | 1,056 | 1,153 | 1,186 | 1,259 |
| 2 850 | 1,057 | 1,154 | 1,187 | 1,260 |
| 2 900 | 1,058 | 1,156 | 1,189 | 1,262 |
| 2 950 | 1,059 | 1,157 | 1,190 | 1,263 |
| 3 000 | 1,060 | 1,158 | 1,191 | 1,265 |

Table 5 — Conversion factors from $4\sqrt{S_0}$ to non-proportional gauge lengths

Factors shown under "non-proportional gauge lengths" give the value of

$$1.19 \left(\frac{\sqrt{S_0}}{L_0} \right)^{0.127}$$

To convert from values on a gauge length of $4\sqrt{S_0}$ to a non-proportional gauge length, multiply by the appropriate factor

To convert from values on a non-proportional gauge length to $4\sqrt{S_0}$, divide by the appropriate factor.

See also figures 3 and 4.

| Cross-sectional area of test piece | Factor for non-proportional gauge length of: | | | |
|---------------------------------------|--|--------|-------|-------|
| | 200 mm | 100 mm | 80 mm | 50 mm |
| 5 | 0,673 | 0,734 | 0,756 | 0,802 |
| 10 | 0,703 | 0,767 | 0,790 | 0,838 |
| 15 | 0,721 | 0,787 | 0,810 | 0,860 |
| 20 | 0,734 | 0,802 | 0,825 | 0,876 |
| 25 | 0,745 | 0,813 | 0,837 | 0,888 |
| 30 | 0,754 | 0,823 | 0,847 | 0,899 |
| 35 | 0,761 | 0,831 | 0,855 | 0,907 |
| 40 | 0,767 | 0,838 | 0,862 | 0,915 |
| 45 | 0,773 | 0,844 | 0,869 | 0,922 |
| 50 | 0,778 | 0,850 | 0,874 | 0,928 |
| 55 | 0,783 | 0,855 | 0,880 | 0,934 |
| 60 | 0,787 | 0,860 | 0,885 | 0,939 |
| 70 | 0,795 | 0,868 | 0,893 | 0,948 |
| 80 | 0,802 | 0,876 | 0,901 | 0,956 |
| 90 | 0,808 | 0,882 | 0,908 | 0,964 |
| 100 | 0,813 | 0,888 | 0,914 | 0,970 |
| 110 | 0,818 | 0,894 | 0,919 | 0,976 |
| 120 | 0,823 | 0,899 | 0,924 | 0,981 |
| 130 | 0,827 | 0,903 | 0,929 | 0,986 |
| 140 | 0,831 | 0,907 | 0,934 | 0,991 |
| 150 | 0,835 | 0,911 | 0,938 | 0,995 |
| 160 | 0,838 | 0,915 | 0,941 | 0,999 |
| 170 | 0,841 | 0,919 | 0,945 | 1,003 |
| 180 | 0,844 | 0,922 | 0,949 | 1,007 |
| 190 | 0,847 | 0,925 | 0,952 | 1,010 |
| 200 | 0,850 | 0,928 | 0,955 | 1,014 |
| 210 | 0,853 | 0,931 | 0,958 | 1,017 |
| 220 | 0,855 | 0,934 | 0,961 | 1,020 |
| 230 | 0,858 | 0,937 | 0,963 | 1,023 |
| 240 | 0,860 | 0,939 | 0,966 | 1,025 |
| 250 | 0,862 | 0,941 | 0,969 | 1,028 |
| 260 | 0,864 | 0,944 | 0,971 | 1,031 |
| 270 | 0,866 | 0,946 | 0,973 | 1,033 |
| 280 | 0,868 | 0,948 | 0,976 | 1,036 |
| 290 | 0,870 | 0,950 | 0,978 | 1,038 |
| 300 | 0,872 | 0,952 | 0,980 | 1,040 |
| 310 | 0,874 | 0,954 | 0,982 | 1,042 |
| 320 | 0,876 | 0,956 | 0,984 | 1,044 |
| 330 | 0,877 | 0,958 | 0,986 | 1,046 |
| 340 | 0,879 | 0,960 | 0,988 | 1,048 |
| 350 | 0,881 | 0,962 | 0,989 | 1,050 |
| 360 | 0,882 | 0,964 | 0,991 | 1,052 |
| 370 | 0,884 | 0,965 | 0,993 | 1,054 |
| 380 | 0,885 | 0,967 | 0,995 | 1,056 |
| 390 | 0,887 | 0,968 | 0,996 | 1,058 |

Table 5 (concluded) — Conversion factors from $4\sqrt{S_0}$ to non-proportional gauge lengths

| Cross-sectional area of test piece | Factor for non-proportional gauge length of: | | | |
|---------------------------------------|--|--------|-------|-------|
| | 200 mm | 100 mm | 80 mm | 50 mm |
| 400 | 0,888 | 0,970 | 0,998 | 1,059 |
| 410 | 0,890 | 0,972 | 0,999 | 1,061 |
| 420 | 0,891 | 0,973 | 1,001 | 1,063 |
| 430 | 0,892 | 0,974 | 1,002 | 1,064 |
| 440 | 0,894 | 0,976 | 1,004 | 1,066 |
| 450 | 0,895 | 0,977 | 1,005 | 1,067 |
| 460 | 0,896 | 0,979 | 1,007 | 1,069 |
| 470 | 0,897 | 0,980 | 1,008 | 1,070 |
| 480 | 0,899 | 0,981 | 1,010 | 1,072 |
| 490 | 0,900 | 0,983 | 1,011 | 1,073 |
| 500 | 0,901 | 0,984 | 1,012 | 1,074 |
| 550 | 0,906 | 0,990 | 1,018 | 1,081 |
| 600 | 0,911 | 0,995 | 1,024 | 1,087 |
| 650 | 0,916 | 1,000 | 1,029 | 1,092 |
| 700 | 0,920 | 1,005 | 1,034 | 1,098 |
| 750 | 0,924 | 1,010 | 1,039 | 1,102 |
| 800 | 0,928 | 1,014 | 1,043 | 1,107 |
| 850 | 0,932 | 1,018 | 1,047 | 1,111 |
| 900 | 0,935 | 1,021 | 1,051 | 1,115 |
| 950 | 0,938 | 1,025 | 1,054 | 1,119 |
| 1 000 | 0,941 | 1,028 | 1,058 | 1,123 |
| 1 050 | 0,944 | 1,031 | 1,061 | 1,126 |
| 1 100 | 0,947 | 1,034 | 1,064 | 1,130 |
| 1 150 | 0,950 | 1,037 | 1,067 | 1,133 |
| 1 200 | 0,952 | 1,040 | 1,070 | 1,136 |
| 1 250 | 0,955 | 1,043 | 1,073 | 1,139 |
| 1 300 | 0,957 | 1,045 | 1,075 | 1,142 |
| 1 350 | 0,960 | 1,048 | 1,078 | 1,144 |
| 1 400 | 0,962 | 1,050 | 1,081 | 1,147 |
| 1 450 | 0,964 | 1,053 | 1,083 | 1,150 |
| 1 500 | 0,966 | 1,055 | 1,085 | 1,152 |
| 1 550 | 0,968 | 1,057 | 1,088 | 1,154 |
| 1 600 | 0,970 | 1,059 | 1,090 | 1,157 |
| 1 650 | 0,972 | 1,061 | 1,092 | 1,159 |
| 1 700 | 0,974 | 1,063 | 1,094 | 1,161 |
| 1 750 | 0,976 | 1,065 | 1,096 | 1,163 |
| 1 800 | 0,977 | 1,067 | 1,098 | 1,165 |
| 1 850 | 0,979 | 1,069 | 1,100 | 1,167 |
| 1 900 | 0,981 | 1,071 | 1,102 | 1,169 |
| 1 950 | 0,982 | 1,073 | 1,103 | 1,171 |
| 2 000 | 0,984 | 1,074 | 1,105 | 1,173 |
| 2 050 | 0,985 | 1,076 | 1,107 | 1,175 |
| 2 100 | 0,987 | 1,078 | 1,109 | 1,177 |
| 2 150 | 0,988 | 1,079 | 1,110 | 1,179 |
| 2 200 | 0,990 | 1,081 | 1,112 | 1,180 |
| 2 250 | 0,991 | 1,082 | 1,114 | 1,182 |
| 2 300 | 0,993 | 1,084 | 1,115 | 1,184 |
| 2 350 | 0,994 | 1,085 | 1,117 | 1,185 |
| 2 400 | 0,995 | 1,087 | 1,118 | 1,187 |
| 2 450 | 0,997 | 1,088 | 1,120 | 1,188 |
| 2 500 | 0,998 | 1,090 | 1,121 | 1,190 |
| 2 550 | 0,999 | 1,091 | 1,122 | 1,191 |
| 2 600 | 1,000 | 1,092 | 1,124 | 1,193 |
| 2 650 | 1,002 | 1,094 | 1,125 | 1,194 |
| 2 700 | 1,003 | 1,095 | 1,127 | 1,196 |
| 2 750 | 1,004 | 1,096 | 1,128 | 1,197 |
| 2 800 | 1,005 | 1,098 | 1,129 | 1,199 |
| 2 850 | 1,006 | 1,099 | 1,130 | 1,200 |
| 2 900 | 1,007 | 1,100 | 1,132 | 1,201 |
| 2 950 | 1,008 | 1,101 | 1,133 | 1,203 |
| 3 000 | 1,010 | 1,102 | 1,134 | 1,204 |

Table 6 — Elongations values ¹⁾ on $5,65\sqrt{S_0}$ corresponding to those obtained on $4\sqrt{S_0}$ gauge length

| Actual elongation (%) measured on $4\sqrt{S_0}$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|--|----|----|----|----|----|----|----|----|----|
| | Corresponding elongation (%) on $5,65\sqrt{S_0}$ | | | | | | | | | |
| 10 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 20 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 30 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 | 37 |
| 40 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 50 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 56 |

1) Factor 0,957. Values rounded to nearest whole number.

Table 7 — Elongation values ¹⁾ on $5,65\sqrt{S_0}$ corresponding to those obtained on 50 mm gauge length

| Actual elongation (%) on 50 mm gauge length | Corresponding elongation (%) on $5,65\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|--|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 | |
| 10 | 12 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | |
| 11 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| 12 | 14 | 14 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| 13 | 15 | 15 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | |
| 14 | 17 | 16 | 15 | 15 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | |
| 15 | 18 | 17 | 16 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | |
| 16 | 19 | 18 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | |
| 17 | 20 | 19 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | |
| 18 | 21 | 20 | 20 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | |
| 19 | 23 | 22 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | |
| 20 | 24 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | |
| 21 | 25 | 24 | 23 | 22 | 21 | 21 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | |
| 22 | 26 | 25 | 24 | 23 | 22 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | |
| 23 | 27 | 26 | 25 | 24 | 23 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | |
| 24 | 28 | 27 | 26 | 25 | 24 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | |
| 25 | 30 | 28 | 27 | 26 | 25 | 25 | 25 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | |
| 26 | 31 | 30 | 28 | 27 | 26 | 26 | 26 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | |
| 27 | 32 | 31 | 29 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | |
| 28 | 33 | 32 | 30 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 22 | |
| 29 | 34 | 33 | 32 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | |
| 30 | 36 | 34 | 33 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | |
| 31 | 37 | 35 | 34 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | |
| 32 | 38 | 36 | 35 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 26 | |
| 33 | 39 | 37 | 36 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 26 | |
| 34 | 40 | 39 | 37 | 35 | 34 | 34 | 33 | 33 | 32 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | |
| 35 | 42 | 40 | 38 | 36 | 35 | 35 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 28 | 28 | |
| 36 | 43 | 41 | 39 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | |
| 37 | 44 | 42 | 40 | 38 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | |
| 38 | 45 | 43 | 41 | 40 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | |
| 39 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 31 | |
| 40 | 47 | 45 | 43 | 43 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 32 | 32 | |
| 41 | 49 | 47 | 45 | 43 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 33 | 33 | |
| 42 | 50 | 48 | 46 | 44 | 43 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 36 | 35 | 35 | 34 | 34 | |
| 43 | 51 | 49 | 47 | 45 | 44 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 36 | 35 | 34 | |
| 44 | 52 | 50 | 48 | 46 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 | 35 | |
| 45 | 53 | 51 | 49 | 47 | 46 | 45 | 44 | 43 | 42 | 42 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | |
| 46 | 55 | 52 | 50 | 48 | 47 | 46 | 45 | 44 | 43 | 43 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 39 | 38 | 37 | 37 | |
| 47 | 56 | 53 | 51 | 49 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 38 | |

1) Rounded to the nearest whole number.

Table 8 — Elongation values¹⁾ on $5,65\sqrt{S_0}$ corresponding to those obtained on 80 mm gauge length

| Actual elongation (%) on 80 mm gauge length | Corresponding elongation (%) on $5,65\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 11 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 |
| 12 | 15 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 |
| 13 | 16 | 16 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 |
| 14 | 18 | 17 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 |
| 15 | 19 | 18 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 |
| 16 | 20 | 19 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 |
| 17 | 21 | 20 | 20 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 14 |
| 18 | 23 | 22 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 |
| 19 | 24 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 |
| 20 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 |
| 21 | 26 | 25 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 |
| 22 | 28 | 27 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 |
| 23 | 29 | 28 | 27 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 |
| 24 | 30 | 29 | 28 | 27 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 20 |
| 25 | 32 | 30 | 29 | 28 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 21 |
| 26 | 33 | 31 | 30 | 29 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 22 | 22 |
| 27 | 34 | 33 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 |
| 28 | 35 | 34 | 32 | 31 | 30 | 30 | 29 | 28 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 |
| 29 | 37 | 35 | 33 | 32 | 31 | 31 | 30 | 29 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 |
| 30 | 38 | 36 | 35 | 33 | 32 | 32 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 25 |
| 31 | 39 | 37 | 36 | 34 | 33 | 33 | 32 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 26 |
| 32 | 40 | 39 | 37 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 |
| 33 | 42 | 40 | 38 | 36 | 36 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 28 | 28 |
| 34 | 43 | 41 | 39 | 38 | 37 | 36 | 35 | 35 | 34 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 29 | 29 |
| 35 | 44 | 42 | 40 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 32 | 31 | 31 | 30 | 30 |
| 36 | 45 | 43 | 42 | 40 | 39 | 38 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 |
| 37 | 47 | 45 | 43 | 41 | 40 | 39 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 33 | 32 | 32 | 31 |
| 38 | 48 | 46 | 44 | 42 | 41 | 40 | 40 | 39 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 32 |
| 39 | 49 | 47 | 45 | 43 | 42 | 41 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 33 |
| 40 | 50 | 48 | 46 | 44 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 36 | 35 | 34 | 34 |
| 41 | 52 | 49 | 47 | 45 | 44 | 43 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 35 | 35 |
| 42 | 53 | 51 | 48 | 46 | 45 | 44 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 |
| 43 | 54 | 52 | 50 | 47 | 46 | 45 | 45 | 44 | 43 | 42 | 42 | 41 | 40 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 |
| 44 | 55 | 53 | 51 | 49 | 47 | 46 | 46 | 45 | 44 | 43 | 43 | 42 | 41 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 37 |
| 45 | 57 | 54 | 52 | 50 | 48 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 41 | 41 | 40 | 39 | 39 | 38 |
| 46 | 58 | 55 | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 40 | 39 |
| 47 | 59 | 57 | 54 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 42 | 42 | 41 | 40 | 40 |

1) Rounded to the nearest whole number.

Table 9 — Elongation values ¹⁾ on $5,65\sqrt{S_0}$ corresponding to those obtained on 100 mm gauge length

| Actual elongation (%) on 100 mm gauge length | Corresponding elongation (%) on $5,65\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 11 | 14 | 14 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 12 | 16 | 15 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 |
| 13 | 17 | 16 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| 14 | 18 | 17 | 17 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 |
| 15 | 19 | 19 | 18 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 |
| 16 | 21 | 20 | 19 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 |
| 17 | 22 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 |
| 18 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 |
| 19 | 25 | 24 | 23 | 22 | 21 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 |
| 20 | 26 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 17 |
| 21 | 27 | 26 | 25 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 |
| 22 | 29 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 19 | 19 |
| 23 | 30 | 29 | 27 | 26 | 25 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 |
| 24 | 31 | 30 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 |
| 25 | 32 | 31 | 30 | 28 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 |
| 26 | 34 | 32 | 31 | 30 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 |
| 27 | 35 | 33 | 32 | 31 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 |
| 28 | 36 | 35 | 33 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 24 |
| 29 | 38 | 36 | 34 | 33 | 32 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 25 |
| 30 | 39 | 37 | 36 | 34 | 33 | 33 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 27 | 26 |
| 31 | 40 | 38 | 37 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 27 | 27 |
| 32 | 41 | 40 | 38 | 36 | 35 | 35 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 28 | 28 |
| 33 | 43 | 41 | 39 | 37 | 37 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 29 | 29 |
| 34 | 44 | 42 | 40 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 30 |
| 35 | 45 | 43 | 42 | 40 | 39 | 38 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 |
| 36 | 47 | 45 | 43 | 41 | 40 | 39 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 33 | 32 | 32 | 31 |
| 37 | 48 | 46 | 44 | 42 | 41 | 40 | 40 | 39 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 32 |
| 38 | 49 | 47 | 45 | 43 | 42 | 41 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 33 |
| 39 | 51 | 48 | 46 | 44 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 34 |
| 40 | 52 | 50 | 47 | 45 | 44 | 43 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 37 | 36 | 35 | 35 |
| 41 | 53 | 51 | 49 | 47 | 45 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 38 | 37 | 36 | 36 |
| 42 | 54 | 52 | 50 | 48 | 46 | 46 | 45 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 |
| 43 | 56 | 53 | 51 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 38 |
| 44 | 57 | 55 | 52 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 43 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 39 | 38 |
| 45 | 58 | 56 | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 39 |
| 46 | 60 | 57 | 55 | 52 | 51 | 50 | 49 | 48 | 47 | 47 | 46 | 45 | 45 | 44 | 44 | 43 | 43 | 43 | 42 | 42 | 41 | 40 |
| 47 | 61 | 58 | 56 | 53 | 52 | 51 | 50 | 49 | 48 | 48 | 47 | 46 | 45 | 45 | 44 | 44 | 44 | 44 | 43 | 42 | 42 | 41 |

1) Rounded to the nearest whole number.

Table 10 — Elongation values¹⁾ on $5,65\sqrt{S_0}$ corresponding to those obtained on 200 mm gauge length

| Actual elongation (%) on 200 mm gauge length | Corresponding elongation (%) on $5,65\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 14 | 14 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 16 | 15 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 |
| 12 | 17 | 16 | 16 | 15 | 15 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| 13 | 18 | 18 | 17 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 |
| 14 | 20 | 19 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 |
| 15 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 |
| 16 | 23 | 22 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 15 |
| 17 | 24 | 23 | 22 | 21 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 16 | 16 |
| 18 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 17 | 17 |
| 19 | 27 | 26 | 25 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 |
| 20 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 |
| 21 | 30 | 28 | 27 | 26 | 25 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 |
| 22 | 31 | 30 | 29 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 |
| 23 | 33 | 31 | 30 | 29 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 |
| 24 | 34 | 33 | 31 | 30 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 |
| 25 | 35 | 34 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 |
| 26 | 37 | 35 | 34 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 |
| 27 | 38 | 37 | 35 | 33 | 33 | 32 | 32 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 |
| 28 | 40 | 38 | 36 | 35 | 34 | 33 | 33 | 32 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 29 | 28 | 28 | 27 | 27 |
| 29 | 41 | 39 | 38 | 36 | 35 | 34 | 34 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 28 | 28 |
| 30 | 42 | 41 | 39 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 29 | 29 |
| 31 | 44 | 42 | 40 | 38 | 37 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 30 |
| 32 | 45 | 43 | 41 | 40 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 |
| 33 | 47 | 45 | 43 | 41 | 40 | 39 | 39 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 31 |
| 34 | 48 | 46 | 44 | 42 | 41 | 40 | 40 | 39 | 38 | 38 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 32 |
| 35 | 50 | 47 | 45 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 34 | 34 | 33 |
| 36 | 51 | 49 | 47 | 45 | 44 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 35 | 35 | 34 |
| 37 | 52 | 50 | 48 | 46 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 | 35 |
| 38 | 54 | 51 | 49 | 47 | 46 | 45 | 44 | 43 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 | 36 |
| 39 | 55 | 53 | 51 | 48 | 47 | 46 | 46 | 44 | 44 | 43 | 43 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 38 | 37 |
| 40 | 57 | 54 | 52 | 50 | 48 | 47 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 39 | 39 | 38 |
| 41 | 58 | 56 | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 40 | 39 |
| 42 | 59 | 57 | 54 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 42 | 42 | 41 | 41 | 40 |
| 43 | 61 | 58 | 56 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 47 | 46 | 45 | 45 | 44 | 44 | 44 | 43 | 43 | 42 | 42 | 41 |
| 44 | 62 | 60 | 57 | 55 | 53 | 52 | 51 | 50 | 49 | 49 | 48 | 47 | 46 | 46 | 46 | 45 | 45 | 44 | 44 | 43 | 43 | 42 |
| 45 | 64 | 61 | 58 | 56 | 54 | 53 | 53 | 51 | 50 | 50 | 49 | 48 | 48 | 47 | 47 | 46 | 46 | 46 | 45 | 44 | 44 | 43 |
| 46 | 65 | 62 | 60 | 57 | 56 | 55 | 54 | 52 | 52 | 51 | 50 | 49 | 49 | 48 | 48 | 47 | 47 | 47 | 46 | 45 | 45 | 44 |
| 47 | 67 | 64 | 61 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 50 | 49 | 49 | 48 | 48 | 48 | 47 | 46 | 45 | 45 |

1) Rounded to the nearest whole number.

Table 11 — Elongation values¹⁾ on $4\sqrt{S_0}$ corresponding to those obtained on 50 mm gauge length

| Actual elongation (%) on 50 mm gauge length | Corresponding elongation (%) on $4\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 11 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 |
| 12 | 15 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 |
| 13 | 16 | 16 | 15 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 |
| 14 | 17 | 17 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 |
| 15 | 19 | 18 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 |
| 16 | 20 | 19 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 |
| 17 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 |
| 18 | 22 | 21 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 |
| 19 | 24 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 |
| 20 | 25 | 24 | 23 | 22 | 21 | 21 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 |
| 21 | 26 | 25 | 24 | 23 | 22 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 |
| 22 | 27 | 26 | 25 | 24 | 23 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 18 |
| 23 | 29 | 27 | 26 | 25 | 24 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 |
| 24 | 30 | 29 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 20 | 20 |
| 25 | 31 | 30 | 29 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 |
| 26 | 32 | 31 | 30 | 28 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 |
| 27 | 34 | 32 | 31 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 |
| 28 | 35 | 33 | 32 | 31 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 |
| 29 | 36 | 35 | 33 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 26 | 25 | 25 | 24 |
| 30 | 37 | 36 | 34 | 33 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 25 |
| 31 | 39 | 37 | 35 | 34 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 26 | 26 |
| 32 | 40 | 38 | 37 | 35 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 27 |
| 33 | 41 | 39 | 38 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 28 | 28 |
| 34 | 42 | 41 | 39 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 |
| 35 | 44 | 42 | 40 | 38 | 37 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 29 |
| 36 | 45 | 43 | 41 | 39 | 38 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 33 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 30 |
| 37 | 46 | 44 | 42 | 40 | 39 | 39 | 38 | 37 | 36 | 36 | 36 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 33 | 32 | 32 | 31 |
| 38 | 47 | 45 | 43 | 42 | 40 | 40 | 39 | 38 | 37 | 37 | 37 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 32 | 32 |
| 39 | 49 | 47 | 45 | 43 | 42 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 33 | 33 |
| 40 | 50 | 48 | 46 | 44 | 43 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 36 | 35 | 35 | 34 | 34 |
| 41 | 51 | 49 | 47 | 45 | 44 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 37 | 36 | 36 | 35 | 34 |
| 42 | 52 | 50 | 48 | 46 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 | 35 |
| 43 | 54 | 51 | 49 | 47 | 46 | 45 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 | 36 |
| 44 | 55 | 52 | 50 | 48 | 47 | 46 | 45 | 44 | 43 | 43 | 42 | 42 | 41 | 40 | 40 | 40 | 39 | 39 | 39 | 38 | 37 | 37 |
| 45 | 56 | 54 | 51 | 49 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 40 | 39 | 38 | 38 |
| 46 | 57 | 55 | 53 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 40 | 39 | 39 |
| 47 | 59 | 56 | 54 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 39 |

1) Rounded to the nearest whole number.

Table 12 — Elongation values¹⁾ on $4\sqrt{S_0}$ corresponding to those obtained on 80 mm gauge length

| Actual elongation (%) on 80 mm gauge length | Corresponding elongation (%) on $4\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | |
| 11 | 15 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | |
| 12 | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | |
| 13 | 17 | 16 | 16 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 14 | 19 | 18 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 12 | |
| 15 | 20 | 19 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 | |
| 16 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | |
| 17 | 22 | 22 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | |
| 18 | 24 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | |
| 19 | 25 | 24 | 23 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | |
| 20 | 26 | 25 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | |
| 21 | 28 | 27 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | |
| 22 | 29 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | |
| 23 | 30 | 29 | 28 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | |
| 24 | 32 | 30 | 29 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 | 21 | |
| 25 | 33 | 32 | 30 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 22 | |
| 26 | 34 | 33 | 32 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 25 | 24 | 24 | 23 | |
| 27 | 36 | 34 | 33 | 31 | 31 | 30 | 30 | 29 | 28 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 26 | 25 | 25 | 24 | |
| 28 | 37 | 35 | 34 | 32 | 32 | 31 | 31 | 30 | 29 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 25 | |
| 29 | 38 | 37 | 35 | 34 | 33 | 32 | 32 | 31 | 30 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 27 | 26 | |
| 30 | 40 | 38 | 36 | 35 | 34 | 33 | 33 | 32 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | |
| 31 | 41 | 39 | 38 | 36 | 35 | 34 | 34 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | |
| 32 | 42 | 41 | 39 | 37 | 36 | 36 | 35 | 34 | 33 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | |
| 33 | 44 | 42 | 40 | 38 | 37 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 29 | |
| 34 | 45 | 43 | 41 | 39 | 38 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 30 | |
| 35 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 31 | |
| 36 | 48 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 32 | |
| 37 | 49 | 47 | 45 | 43 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 35 | 34 | 33 | |
| 38 | 50 | 48 | 46 | 44 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 34 | |
| 39 | 52 | 49 | 47 | 45 | 44 | 43 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 39 | 37 | 37 | 37 | 36 | 36 | 35 | |
| 40 | 53 | 51 | 48 | 46 | 45 | 44 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | |
| 41 | 54 | 52 | 50 | 48 | 46 | 45 | 45 | 44 | 43 | 42 | 42 | 41 | 40 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | |
| 42 | 56 | 53 | 51 | 49 | 47 | 47 | 46 | 45 | 44 | 43 | 43 | 42 | 41 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | |
| 43 | 57 | 54 | 52 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 39 | |
| 44 | 58 | 56 | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | |
| 45 | 60 | 57 | 55 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 44 | 43 | 43 | 43 | 42 | 41 | 40 | |
| 46 | 61 | 58 | 56 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 47 | 46 | 45 | 45 | 44 | 44 | 44 | 43 | 43 | 42 | 41 | |
| 47 | 62 | 60 | 57 | 54 | 53 | 52 | 51 | 50 | 49 | 49 | 48 | 47 | 46 | 46 | 45 | 45 | 45 | 44 | 44 | 43 | 42 | |

1) Rounded to the nearest whole number.

Table 13 — Elongation values ¹⁾ on $4\sqrt{S_0}$ corresponding to those obtained on 100 mm gauge length

| Actual elongation (%) on 100 mm gauge length | Corresponding elongation (%) on $4\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 14 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 |
| 11 | 15 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 |
| 12 | 16 | 16 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 |
| 13 | 18 | 17 | 16 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 |
| 14 | 19 | 18 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 |
| 15 | 20 | 20 | 19 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 |
| 16 | 22 | 21 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 |
| 17 | 23 | 22 | 21 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 |
| 18 | 25 | 23 | 22 | 21 | 21 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 |
| 19 | 26 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 |
| 20 | 27 | 26 | 25 | 24 | 23 | 23 | 23 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 |
| 21 | 29 | 27 | 26 | 25 | 24 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 |
| 22 | 30 | 29 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 20 | 20 |
| 23 | 31 | 30 | 29 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 21 | 21 |
| 24 | 33 | 31 | 30 | 29 | 28 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 |
| 25 | 34 | 33 | 31 | 30 | 29 | 29 | 28 | 27 | 27 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 23 | 23 |
| 26 | 35 | 34 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 |
| 27 | 37 | 35 | 34 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 |
| 28 | 38 | 36 | 35 | 33 | 33 | 32 | 32 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 26 |
| 29 | 39 | 38 | 36 | 35 | 34 | 33 | 33 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 |
| 30 | 41 | 39 | 37 | 36 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 |
| 31 | 42 | 40 | 39 | 37 | 36 | 35 | 35 | 34 | 33 | 33 | 33 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 28 |
| 32 | 44 | 42 | 40 | 38 | 37 | 37 | 36 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 31 | 30 | 29 |
| 33 | 45 | 43 | 41 | 39 | 38 | 38 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 30 |
| 34 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 31 |
| 35 | 48 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 32 |
| 36 | 49 | 47 | 45 | 43 | 42 | 41 | 41 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 33 | 33 |
| 37 | 50 | 48 | 46 | 44 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 36 | 35 | 34 | 34 |
| 38 | 52 | 49 | 47 | 45 | 44 | 43 | 43 | 42 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 37 | 36 | 35 | 35 |
| 39 | 53 | 51 | 49 | 47 | 45 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 |
| 40 | 54 | 52 | 50 | 48 | 46 | 46 | 45 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 |
| 41 | 56 | 53 | 51 | 49 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 38 |
| 42 | 57 | 55 | 52 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 39 | 39 |
| 43 | 59 | 56 | 54 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 39 |
| 44 | 60 | 57 | 55 | 52 | 51 | 50 | 50 | 48 | 47 | 47 | 46 | 45 | 45 | 44 | 44 | 43 | 43 | 43 | 42 | 42 | 41 | 40 |
| 45 | 61 | 59 | 56 | 54 | 52 | 51 | 51 | 49 | 48 | 48 | 47 | 46 | 46 | 45 | 45 | 44 | 44 | 44 | 43 | 43 | 42 | 41 |
| 46 | 63 | 60 | 57 | 55 | 53 | 53 | 52 | 50 | 50 | 49 | 48 | 47 | 47 | 46 | 46 | 45 | 45 | 45 | 44 | 44 | 43 | 42 |
| 47 | 64 | 61 | 59 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 48 | 47 | 47 | 46 | 46 | 46 | 45 | 45 | 44 | 43 |

1) Rounded to the nearest whole number.

Table 14 — Elongation values¹⁾ on $4\sqrt{S_0}$ corresponding to those obtained on 200 mm gauge length

| Actual elongation (%) on 200 mm gauge length | Corresponding elongation (%) on $4\sqrt{S_0}$ gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 |
| 11 | 16 | 16 | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 |
| 12 | 18 | 17 | 16 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 |
| 13 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 |
| 14 | 21 | 20 | 19 | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 |
| 15 | 22 | 21 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 |
| 16 | 24 | 23 | 22 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 |
| 17 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 |
| 18 | 27 | 26 | 25 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 |
| 19 | 28 | 27 | 26 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 19 | 19 |
| 20 | 30 | 28 | 27 | 26 | 25 | 25 | 25 | 24 | 24 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 |
| 21 | 31 | 30 | 29 | 27 | 27 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 |
| 22 | 33 | 31 | 30 | 29 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 22 | 22 |
| 23 | 34 | 33 | 31 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 |
| 24 | 36 | 34 | 33 | 31 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 24 | 24 |
| 25 | 37 | 36 | 34 | 33 | 32 | 31 | 31 | 30 | 29 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 25 | 25 |
| 26 | 39 | 37 | 35 | 34 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 27 | 27 | 26 | 26 |
| 27 | 40 | 38 | 37 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 27 | 27 |
| 28 | 42 | 40 | 38 | 36 | 36 | 35 | 34 | 34 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 28 | 28 |
| 29 | 43 | 41 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 29 | 29 |
| 30 | 45 | 43 | 41 | 39 | 38 | 37 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | 30 |
| 31 | 46 | 44 | 42 | 40 | 39 | 39 | 38 | 37 | 36 | 36 | 36 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 33 | 32 | 31 | 31 |
| 32 | 48 | 46 | 44 | 42 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 33 | 32 |
| 33 | 49 | 47 | 45 | 43 | 42 | 41 | 41 | 40 | 39 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 34 | 34 | 33 |
| 34 | 51 | 48 | 46 | 44 | 43 | 42 | 42 | 41 | 40 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 34 |
| 35 | 52 | 50 | 48 | 46 | 44 | 44 | 43 | 42 | 41 | 41 | 40 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 35 |
| 36 | 54 | 51 | 49 | 47 | 46 | 45 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 39 | 39 | 39 | 38 | 38 | 38 | 37 | 37 | 36 |
| 37 | 55 | 53 | 50 | 48 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 | 38 | 37 |
| 38 | 56 | 54 | 52 | 49 | 48 | 47 | 47 | 46 | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 41 | 41 | 40 | 40 | 39 | 39 | 38 |
| 39 | 58 | 55 | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 45 | 44 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 40 | 40 | 39 |
| 40 | 59 | 57 | 54 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 46 | 45 | 44 | 44 | 43 | 43 | 43 | 42 | 42 | 41 | 41 | 40 |
| 41 | 61 | 58 | 56 | 53 | 52 | 51 | 50 | 49 | 48 | 48 | 47 | 46 | 45 | 45 | 44 | 44 | 44 | 43 | 43 | 42 | 42 | 41 |
| 42 | 62 | 60 | 57 | 55 | 53 | 52 | 52 | 50 | 49 | 49 | 48 | 47 | 47 | 46 | 46 | 45 | 45 | 45 | 44 | 43 | 43 | 42 |
| 43 | 64 | 61 | 59 | 56 | 55 | 54 | 53 | 51 | 51 | 50 | 49 | 48 | 48 | 47 | 47 | 46 | 46 | 46 | 45 | 44 | 44 | 43 |
| 44 | 65 | 63 | 60 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 50 | 49 | 48 | 48 | 47 | 47 | 47 | 46 | 46 | 45 | 44 |
| 45 | 67 | 64 | 61 | 59 | 57 | 56 | 55 | 54 | 53 | 52 | 52 | 51 | 50 | 49 | 48 | 48 | 48 | 48 | 47 | 47 | 46 | 45 |
| 46 | 68 | 65 | 63 | 60 | 58 | 57 | 57 | 55 | 54 | 53 | 53 | 52 | 51 | 50 | 50 | 50 | 49 | 49 | 48 | 48 | 47 | 46 |
| 47 | 70 | 67 | 64 | 61 | 60 | 59 | 58 | 56 | 55 | 54 | 54 | 53 | 52 | 52 | 51 | 51 | 50 | 50 | 49 | 49 | 48 | 47 |

1) Rounded to the nearest whole number.

Table 15 — Elongation values ¹⁾ on 50 mm corresponding to those obtained on $5,65\sqrt{S_0}$ gauge length

| Actual elongation (%) on $5,65\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 50 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 |
| 11 | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 |
| 12 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 |
| 13 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 |
| 14 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 |
| 15 | 13 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 |
| 16 | 13 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 |
| 17 | 14 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 |
| 18 | 15 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 23 |
| 19 | 16 | 17 | 17 | 18 | 19 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 24 |
| 20 | 17 | 18 | 18 | 19 | 20 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 |
| 21 | 18 | 18 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 |
| 22 | 19 | 19 | 20 | 21 | 22 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 | 28 |
| 23 | 19 | 20 | 21 | 22 | 23 | 23 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 27 | 28 | 28 | 29 |
| 24 | 20 | 21 | 22 | 23 | 24 | 24 | 24 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 30 | 30 |
| 25 | 21 | 22 | 23 | 24 | 25 | 25 | 25 | 26 | 27 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 31 | 31 |
| 26 | 22 | 23 | 24 | 25 | 26 | 26 | 26 | 27 | 28 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 33 |
| 27 | 23 | 24 | 25 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 34 |
| 28 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 33 | 33 | 34 | 35 | 35 |
| 29 | 24 | 26 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 36 | 36 |
| 30 | 25 | 26 | 28 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 35 | 36 | 36 | 37 | 38 |
| 31 | 26 | 27 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 38 | 38 | 39 |
| 32 | 27 | 28 | 29 | 31 | 32 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 37 | 38 | 38 | 39 | 39 | 40 |
| 33 | 28 | 29 | 30 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 39 | 40 | 41 | 41 |
| 34 | 29 | 30 | 31 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 43 |
| 35 | 29 | 31 | 32 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 44 |
| 36 | 30 | 32 | 33 | 35 | 36 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 41 | 41 | 42 | 42 | 42 | 42 | 43 | 44 | 44 | 45 |
| 37 | 31 | 33 | 34 | 36 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 | 46 |
| 38 | 32 | 33 | 35 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 47 | 48 |
| 39 | 33 | 34 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 45 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 49 |
| 40 | 34 | 35 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 43 | 44 | 45 | 45 | 46 | 46 | 47 | 47 | 47 | 48 | 48 | 49 | 50 |
| 41 | 35 | 36 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 44 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 48 | 49 | 50 | 51 | 51 |
| 42 | 35 | 37 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 47 | 48 | 48 | 49 | 49 | 50 | 50 | 51 | 52 | 53 |
| 43 | 36 | 38 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 46 | 47 | 48 | 49 | 49 | 50 | 50 | 50 | 51 | 51 | 52 | 53 | 54 |
| 44 | 37 | 39 | 40 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 48 | 49 | 50 | 50 | 51 | 51 | 52 | 52 | 52 | 53 | 54 | 55 |
| 45 | 38 | 40 | 41 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 49 | 50 | 51 | 51 | 52 | 52 | 53 | 53 | 54 | 54 | 55 | 56 |
| 46 | 39 | 40 | 42 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 50 | 51 | 52 | 53 | 53 | 53 | 54 | 54 | 55 | 56 | 57 | 58 |
| 47 | 40 | 41 | 43 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 51 | 52 | 53 | 54 | 54 | 55 | 55 | 55 | 56 | 57 | 58 | 59 |

1) Rounded to the nearest whole number.

Table 16 — Elongation values¹⁾ on 80 mm corresponding to those obtained on $5,65\sqrt{S_0}$ gauge length

| Actual elongation (%) on $5,65\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 80 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 |
| 11 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 |
| 12 | 10 | 10 | 10 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 |
| 13 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |
| 14 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 |
| 15 | 12 | 12 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 18 |
| 16 | 13 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 | 19 |
| 17 | 13 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 |
| 18 | 14 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 |
| 19 | 15 | 16 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 |
| 20 | 16 | 17 | 17 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 24 |
| 21 | 17 | 17 | 18 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 |
| 22 | 17 | 18 | 19 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 25 | 25 | 26 | 26 |
| 23 | 18 | 19 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 |
| 24 | 19 | 20 | 21 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 |
| 25 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 |
| 26 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 31 |
| 27 | 21 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 32 |
| 28 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 28 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 32 | 33 | 33 |
| 29 | 23 | 24 | 25 | 26 | 27 | 27 | 28 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 34 | 34 |
| 30 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 33 | 34 | 34 | 35 | 35 |
| 31 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 35 | 35 | 36 | 37 |
| 32 | 25 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 37 | 38 |
| 33 | 26 | 27 | 29 | 30 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 38 | 38 | 39 |
| 34 | 27 | 28 | 29 | 31 | 32 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 |
| 35 | 28 | 29 | 30 | 32 | 33 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 39 | 40 | 41 | 41 |
| 36 | 29 | 30 | 31 | 33 | 33 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 40 | 41 | 42 | 42 |
| 37 | 29 | 31 | 32 | 34 | 34 | 35 | 36 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 44 |
| 38 | 30 | 32 | 33 | 34 | 35 | 36 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 45 |
| 39 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 |
| 40 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 43 | 43 | 43 | 44 | 44 | 44 | 45 | 46 | 46 | 47 |
| 41 | 33 | 34 | 36 | 37 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 46 | 47 | 48 | 48 |
| 42 | 33 | 35 | 36 | 38 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 | 45 | 45 | 46 | 46 | 46 | 47 | 47 | 48 | 49 | 49 |
| 43 | 34 | 36 | 37 | 39 | 40 | 41 | 41 | 42 | 43 | 44 | 44 | 45 | 46 | 46 | 47 | 47 | 47 | 48 | 48 | 49 | 50 | 51 |
| 44 | 35 | 36 | 38 | 40 | 41 | 42 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 47 | 48 | 48 | 49 | 49 | 49 | 50 | 51 | 52 |
| 45 | 36 | 37 | 39 | 41 | 42 | 43 | 43 | 44 | 45 | 46 | 46 | 47 | 48 | 48 | 49 | 49 | 50 | 50 | 51 | 51 | 52 | 53 |
| 46 | 37 | 38 | 40 | 42 | 43 | 44 | 44 | 45 | 46 | 47 | 47 | 48 | 49 | 49 | 50 | 50 | 51 | 51 | 52 | 52 | 53 | 54 |
| 47 | 37 | 39 | 41 | 43 | 44 | 44 | 45 | 46 | 47 | 48 | 48 | 49 | 50 | 51 | 51 | 51 | 52 | 52 | 53 | 54 | 55 | 55 |

1) Rounded to the nearest whole number.

Table 17 — Elongation values ¹⁾ on 100 mm corresponding to those obtained on $5,65\sqrt{S_0}$ gauge length

| Actual elongation (%) on $5,65\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 100 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 11 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 |
| 12 | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 |
| 13 | 10 | 10 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 |
| 14 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 |
| 15 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 |
| 16 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 18 | 18 |
| 17 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 |
| 18 | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 21 |
| 19 | 15 | 15 | 16 | 17 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 22 |
| 20 | 15 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 |
| 21 | 16 | 17 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 24 | 24 |
| 22 | 17 | 18 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 |
| 23 | 18 | 19 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 |
| 24 | 19 | 19 | 20 | 21 | 22 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 | 27 |
| 25 | 19 | 20 | 21 | 22 | 23 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 29 |
| 26 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 30 |
| 27 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 31 |
| 28 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 32 | 32 |
| 29 | 22 | 23 | 24 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 32 | 32 | 33 | 33 |
| 30 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 34 | 34 |
| 31 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 33 | 33 | 34 | 34 | 35 | 35 |
| 32 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 37 |
| 33 | 25 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 35 | 36 | 36 | 37 | 37 | 38 |
| 34 | 26 | 27 | 29 | 30 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 36 | 36 | 37 | 37 | 38 | 38 | 39 |
| 35 | 27 | 28 | 29 | 31 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 |
| 36 | 28 | 29 | 30 | 32 | 33 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 39 | 40 | 41 | 41 |
| 37 | 29 | 30 | 31 | 33 | 33 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 40 | 41 | 42 | 42 |
| 38 | 29 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 |
| 39 | 30 | 31 | 33 | 34 | 35 | 36 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 45 |
| 40 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 |
| 41 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 44 | 45 | 45 | 46 | 47 |
| 42 | 32 | 34 | 35 | 37 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 47 | 47 | 48 |
| 43 | 33 | 35 | 36 | 38 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 46 | 46 | 46 | 47 | 48 | 49 | 49 |
| 44 | 34 | 35 | 37 | 39 | 40 | 40 | 41 | 42 | 43 | 44 | 44 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 49 | 50 | 50 |
| 45 | 35 | 36 | 38 | 40 | 41 | 41 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 47 | 48 | 48 | 48 | 49 | 49 | 50 | 51 | 52 |
| 46 | 35 | 37 | 39 | 40 | 42 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 48 | 48 | 49 | 49 | 49 | 50 | 50 | 51 | 52 | 53 |
| 47 | 36 | 38 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 46 | 47 | 48 | 49 | 49 | 50 | 50 | 50 | 51 | 51 | 52 | 53 | 54 |

1) Rounded to the nearest whole number.

Table 18 — Elongation values ¹⁾ on 200 mm corresponding to those obtained on $5,65\sqrt{S_0}$ gauge length

| Actual elongation (%) on $5,65\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 200 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 |
| 12 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 |
| 13 | 9 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 |
| 14 | 10 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 |
| 15 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 |
| 16 | 11 | 12 | 12 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 |
| 17 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 18 | 18 |
| 18 | 13 | 13 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 | 19 |
| 19 | 13 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 |
| 20 | 14 | 15 | 15 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 |
| 21 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 |
| 22 | 16 | 16 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 23 | 23 |
| 23 | 16 | 17 | 18 | 19 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 24 | 24 |
| 24 | 17 | 18 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 |
| 25 | 18 | 18 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 |
| 26 | 18 | 19 | 20 | 21 | 22 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 |
| 27 | 19 | 20 | 21 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 |
| 28 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 |
| 29 | 20 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 30 | 30 |
| 30 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 31 | 31 |
| 31 | 22 | 23 | 24 | 25 | 26 | 26 | 26 | 27 | 28 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 32 |
| 32 | 23 | 24 | 25 | 26 | 26 | 27 | 27 | 28 | 29 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 31 | 32 | 32 | 32 | 33 | 34 |
| 33 | 23 | 24 | 25 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | 35 |
| 34 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 33 | 34 | 34 | 35 | 35 | 36 |
| 35 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 35 | 35 | 36 | 36 | 37 |
| 36 | 25 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 37 | 37 | 38 |
| 37 | 26 | 27 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 38 | 38 | 39 |
| 38 | 27 | 28 | 29 | 31 | 31 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 39 | 39 | 40 |
| 39 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 | 40 | 41 |
| 40 | 28 | 30 | 31 | 32 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 41 | 41 | 42 |
| 41 | 29 | 30 | 32 | 33 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 42 | 43 |
| 42 | 30 | 31 | 32 | 34 | 35 | 35 | 36 | 37 | 38 | 38 | 38 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 43 | 44 |
| 43 | 30 | 32 | 33 | 35 | 36 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 44 | 45 |
| 44 | 31 | 32 | 34 | 35 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 45 | 46 |
| 45 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 43 | 43 | 44 | 44 | 44 | 45 | 45 | 46 | 47 | 47 |
| 46 | 32 | 34 | 35 | 37 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 44 | 44 | 44 | 45 | 45 | 45 | 46 | 47 | 48 | 48 |
| 47 | 33 | 35 | 36 | 38 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 46 | 46 | 46 | 47 | 48 | 49 | 49 |

1) Rounded to the nearest whole number.

Table 19 — Elongation values ¹⁾ on 50 mm corresponding to those obtained on $4\sqrt{S_0}$ gauge length

| Actual elongation (%) on $4\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 50 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 8 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 |
| 11 | 9 | 9 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 |
| 12 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 |
| 13 | 10 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 |
| 14 | 11 | 12 | 12 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 |
| 15 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 18 | 18 |
| 16 | 13 | 13 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 19 |
| 17 | 14 | 14 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 |
| 18 | 14 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 |
| 19 | 15 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 23 |
| 20 | 16 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 24 |
| 21 | 17 | 18 | 18 | 19 | 20 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 |
| 22 | 18 | 18 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 |
| 23 | 18 | 19 | 20 | 21 | 22 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 |
| 24 | 19 | 20 | 21 | 22 | 23 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 29 |
| 25 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 30 |
| 26 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 31 | 31 |
| 27 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 32 | 32 |
| 28 | 22 | 23 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 32 | 32 | 33 | 33 |
| 29 | 23 | 24 | 25 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | 35 |
| 30 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 33 | 34 | 34 | 35 | 35 | 36 |
| 31 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 37 |
| 32 | 26 | 27 | 28 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 38 | 38 |
| 33 | 26 | 28 | 29 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 37 | 38 | 39 | 39 |
| 34 | 27 | 28 | 30 | 31 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 37 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 | 40 |
| 35 | 28 | 29 | 31 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 38 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 41 | 42 |
| 36 | 29 | 30 | 32 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 39 | 39 | 40 | 40 | 40 | 40 | 41 | 41 | 42 | 43 |
| 37 | 30 | 31 | 32 | 34 | 35 | 35 | 36 | 37 | 38 | 38 | 38 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 43 | 44 |
| 38 | 30 | 32 | 33 | 35 | 36 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 45 | 45 |
| 39 | 31 | 33 | 34 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 | 46 |
| 40 | 32 | 34 | 35 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 47 | 48 |
| 41 | 33 | 34 | 36 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 45 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 49 |
| 42 | 34 | 35 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 43 | 44 | 44 | 45 | 46 | 46 | 46 | 47 | 47 | 48 | 48 | 49 | 50 |
| 43 | 34 | 36 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 44 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 48 | 49 | 50 | 50 | 51 |
| 44 | 35 | 37 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 47 | 48 | 48 | 49 | 49 | 49 | 50 | 51 | 52 | 52 |
| 45 | 36 | 38 | 39 | 41 | 42 | 43 | 44 | 45 | 46 | 46 | 47 | 48 | 48 | 49 | 49 | 50 | 50 | 51 | 51 | 52 | 53 | 54 |
| 46 | 37 | 39 | 40 | 42 | 43 | 44 | 45 | 46 | 47 | 47 | 48 | 49 | 49 | 50 | 50 | 51 | 51 | 52 | 52 | 53 | 54 | 55 |
| 47 | 38 | 39 | 41 | 43 | 44 | 45 | 46 | 47 | 48 | 48 | 49 | 50 | 50 | 51 | 52 | 52 | 52 | 53 | 53 | 54 | 55 | 56 |

1) Rounded to the nearest whole number.

Table 20 — Elongation values¹⁾ on 80 mm corresponding to those obtained on $4\sqrt{S_0}$ gauge length

| Actual elongation (%) on $4\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 80 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 |
| 11 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 |
| 12 | 9 | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 13 | 10 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 15 |
| 14 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 16 |
| 15 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 |
| 16 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 18 |
| 17 | 13 | 13 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 19 |
| 18 | 14 | 14 | 15 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 |
| 19 | 14 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 |
| 20 | 15 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 |
| 21 | 16 | 17 | 17 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 24 |
| 22 | 17 | 17 | 18 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 |
| 23 | 17 | 18 | 19 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 26 |
| 24 | 18 | 19 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | 26 | 26 | 27 | 27 |
| 25 | 19 | 20 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 26 | 27 | 27 | 28 | 28 |
| 26 | 20 | 21 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 29 | 29 |
| 27 | 20 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 30 | 30 |
| 28 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 31 | 31 |
| 29 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 33 |
| 30 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 28 | 29 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 34 |
| 31 | 23 | 24 | 26 | 27 | 27 | 28 | 28 | 29 | 30 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 35 |
| 32 | 24 | 25 | 26 | 28 | 28 | 29 | 29 | 30 | 31 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 36 |
| 33 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 37 |
| 34 | 26 | 27 | 28 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 38 | 38 |
| 35 | 26 | 28 | 29 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 37 | 38 | 39 | 39 |
| 36 | 27 | 28 | 30 | 31 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 | 40 |
| 37 | 28 | 29 | 31 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 41 | 41 |
| 38 | 29 | 30 | 31 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 43 |
| 39 | 29 | 31 | 32 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 44 |
| 40 | 30 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 45 |
| 41 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 |
| 42 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 44 | 45 | 46 | 46 | 47 |
| 43 | 32 | 34 | 35 | 37 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 47 | 48 | 48 |
| 44 | 33 | 35 | 36 | 38 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 | 45 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 49 | 49 |
| 45 | 34 | 36 | 37 | 39 | 40 | 41 | 41 | 42 | 43 | 44 | 44 | 45 | 46 | 46 | 47 | 47 | 47 | 48 | 48 | 49 | 50 | 50 |
| 46 | 35 | 36 | 38 | 40 | 41 | 41 | 42 | 43 | 44 | 45 | 45 | 46 | 47 | 47 | 48 | 48 | 48 | 49 | 49 | 50 | 51 | 52 |
| 47 | 36 | 37 | 39 | 41 | 42 | 42 | 43 | 44 | 45 | 46 | 46 | 47 | 48 | 48 | 49 | 49 | 49 | 50 | 50 | 51 | 52 | 53 |

1) Rounded to the nearest whole number.

Table 21 — Elongation values¹⁾ on 100 mm corresponding to those obtained on $4\sqrt{S_0}$ gauge length

| Actual elongation (%) on $4\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 100 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 500 | 2 000 | 2 500 |
| 10 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 |
| 11 | 8 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 |
| 12 | 9 | 9 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 |
| 13 | 10 | 10 | 10 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 |
| 14 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |
| 15 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 |
| 16 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 |
| 17 | 12 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 19 |
| 18 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 |
| 19 | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 21 |
| 20 | 15 | 15 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 22 |
| 21 | 15 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 23 | 23 |
| 22 | 16 | 17 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 24 | 24 |
| 23 | 17 | 18 | 18 | 19 | 20 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 |
| 24 | 18 | 18 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 |
| 25 | 18 | 19 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 |
| 26 | 19 | 20 | 21 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 |
| 27 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 |
| 28 | 21 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 31 |
| 29 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 32 |
| 30 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 33 |
| 31 | 23 | 24 | 25 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 34 |
| 32 | 24 | 25 | 26 | 27 | 28 | 28 | 28 | 29 | 30 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 35 |
| 33 | 24 | 25 | 26 | 28 | 28 | 29 | 29 | 30 | 31 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 36 |
| 34 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 37 | 37 |
| 35 | 26 | 27 | 28 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 38 | 38 |
| 36 | 26 | 28 | 29 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 37 | 38 | 39 | 39 |
| 37 | 27 | 28 | 30 | 31 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 38 | 39 | 40 | 40 |
| 38 | 28 | 29 | 30 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 41 | 41 |
| 39 | 29 | 30 | 31 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 42 |
| 40 | 29 | 31 | 32 | 34 | 34 | 35 | 36 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | 42 | 43 | 44 |
| 41 | 30 | 31 | 33 | 34 | 35 | 36 | 36 | 37 | 38 | 39 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 45 |
| 42 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 46 |
| 43 | 32 | 33 | 34 | 36 | 37 | 38 | 38 | 39 | 40 | 40 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 44 | 45 | 45 | 46 | 47 |
| 44 | 32 | 34 | 35 | 37 | 38 | 39 | 39 | 40 | 41 | 41 | 42 | 43 | 43 | 44 | 44 | 45 | 45 | 45 | 46 | 46 | 47 | 48 |
| 45 | 33 | 35 | 36 | 38 | 39 | 39 | 40 | 41 | 42 | 42 | 43 | 44 | 44 | 45 | 45 | 46 | 46 | 46 | 47 | 47 | 48 | 49 |
| 46 | 34 | 35 | 37 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 | 45 | 45 | 46 | 46 | 47 | 47 | 47 | 48 | 49 | 49 | 50 |
| 47 | 35 | 36 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 44 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 48 | 49 | 50 | 50 | 51 |

1) Rounded to the nearest whole number.

Table 22 — Elongation values¹⁾ on 200 mm corresponding to those obtained on $4\sqrt{S_0}$ gauge length

| Actual elongation (%) on $4\sqrt{S_0}$ gauge length | Corresponding elongation (%) on 200 mm gauge length if cross-sectional area in square millimetres is: | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|----|--|--|
| | 5 | 10 | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1 000 | 1 200 | 1 600 | 2 000 | 2 500 | | | |
| 10 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | | |
| 11 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | | |
| 12 | 8 | 8 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | | |
| 13 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | | |
| 14 | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | | |
| 15 | 10 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | | |
| 16 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | | |
| 17 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | | |
| 18 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | | |
| 19 | 13 | 13 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | | |
| 20 | 13 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | | |
| 21 | 14 | 15 | 15 | 16 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | | |
| 22 | 15 | 15 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | | |
| 23 | 15 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | | |
| 24 | 16 | 17 | 18 | 18 | 19 | 19 | 20 | 20 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | | |
| 25 | 17 | 18 | 18 | 19 | 20 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | | |
| 26 | 17 | 18 | 19 | 20 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | | |
| 27 | 18 | 19 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | | |
| 28 | 19 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | | |
| 29 | 20 | 20 | 21 | 22 | 23 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | | |
| 30 | 20 | 21 | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | | |
| 31 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | | |
| 32 | 22 | 22 | 24 | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 32 | | |
| 33 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 32 | 32 | 32 | | |
| 34 | 23 | 24 | 25 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | | |
| 35 | 24 | 25 | 26 | 27 | 28 | 28 | 28 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | | |
| 36 | 24 | 25 | 26 | 28 | 28 | 29 | 29 | 30 | 31 | 31 | 31 | 32 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | | |
| 37 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | | |
| 38 | 26 | 27 | 28 | 29 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 36 | 36 | 36 | 37 | 37 | 37 | 38 | | |
| 39 | 26 | 27 | 29 | 30 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 38 | | |
| 40 | 27 | 28 | 29 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | | |
| 41 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | | |
| 42 | 28 | 30 | 31 | 32 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 39 | 40 | 40 | 41 | 41 | 41 | 42 | | |
| 43 | 29 | 30 | 32 | 33 | 34 | 34 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 39 | 40 | 40 | 40 | 41 | 41 | 42 | 42 | 42 | 43 | | |
| 44 | 30 | 31 | 32 | 34 | 35 | 35 | 36 | 37 | 37 | 38 | 38 | 39 | 40 | 40 | 40 | 41 | 41 | 41 | 42 | 43 | 43 | 43 | 44 | | |
| 45 | 30 | 32 | 33 | 35 | 36 | 36 | 37 | 38 | 38 | 39 | 39 | 40 | 41 | 41 | 41 | 42 | 42 | 42 | 43 | 43 | 44 | 44 | 45 | | |
| 46 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 39 | 40 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 43 | 44 | 44 | 45 | 45 | 46 | | |
| 47 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 44 | 44 | 44 | 45 | 45 | 46 | 46 | 47 | | |

1) Rounded to the nearest whole number.

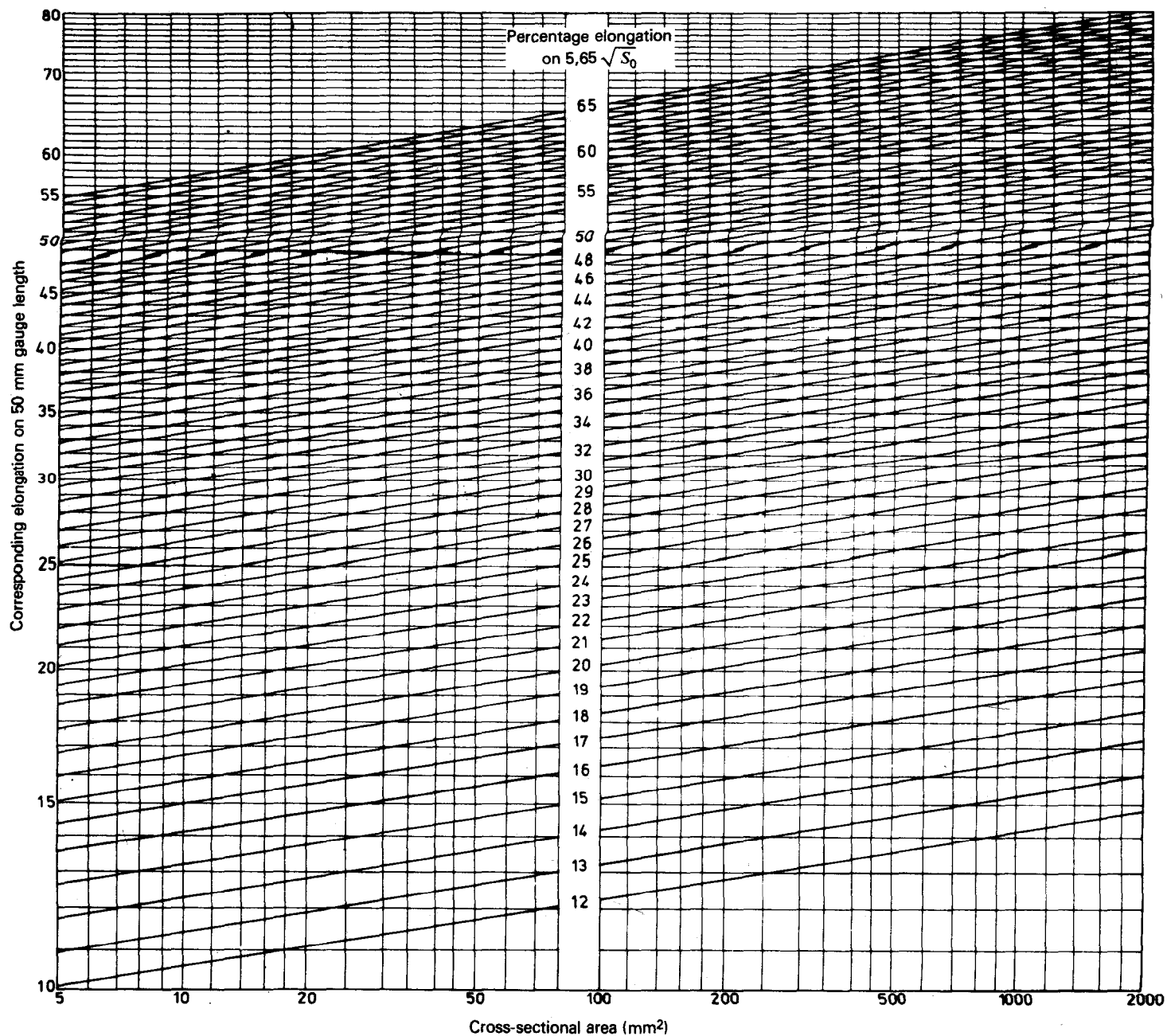


Figure 1 — Conversions between $5,65\sqrt{S_0}$ and 50 mm gauge length

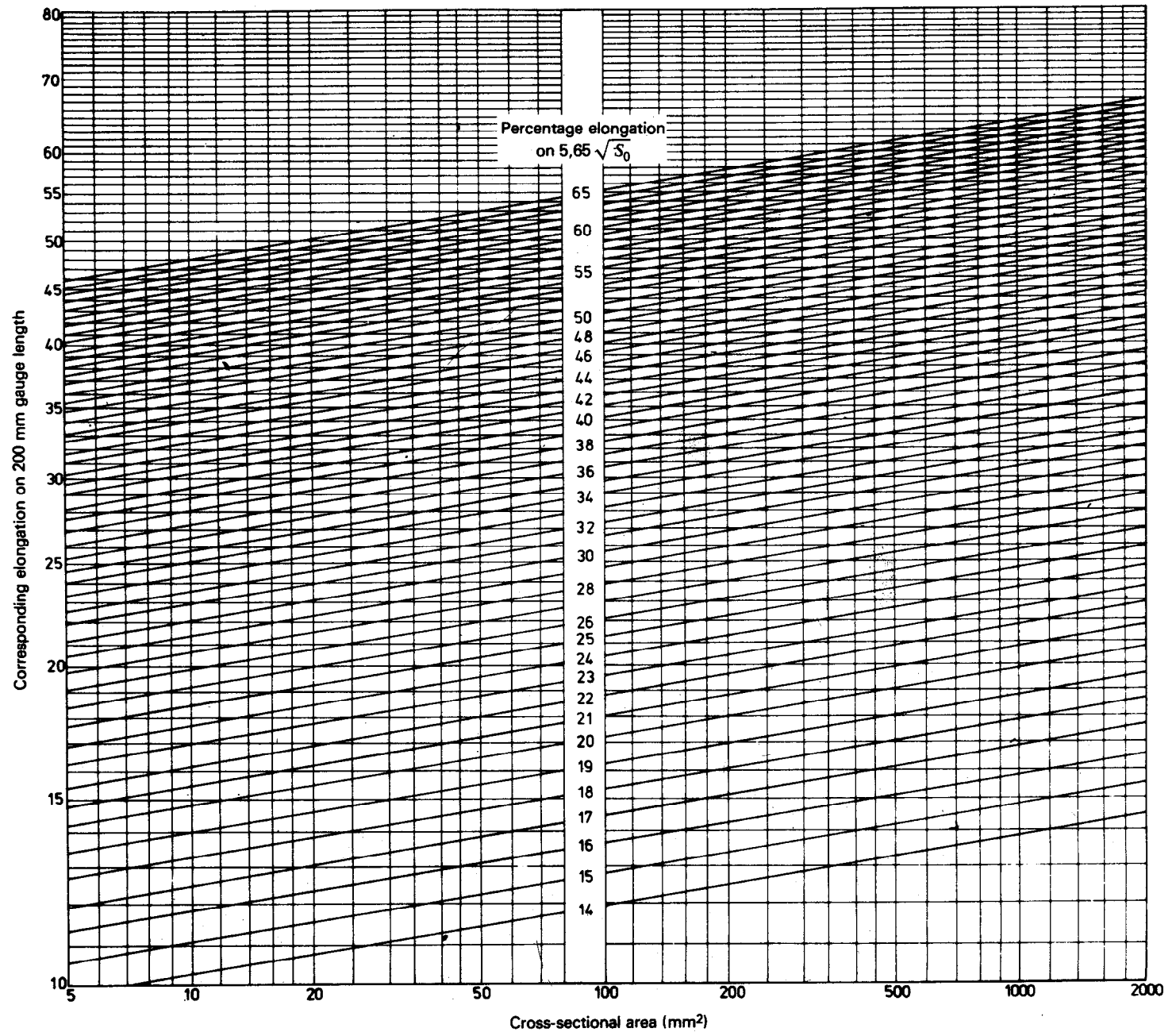


Figure 2 — Conversions between $5,65\sqrt{S_0}$ and 200 mm gauge length

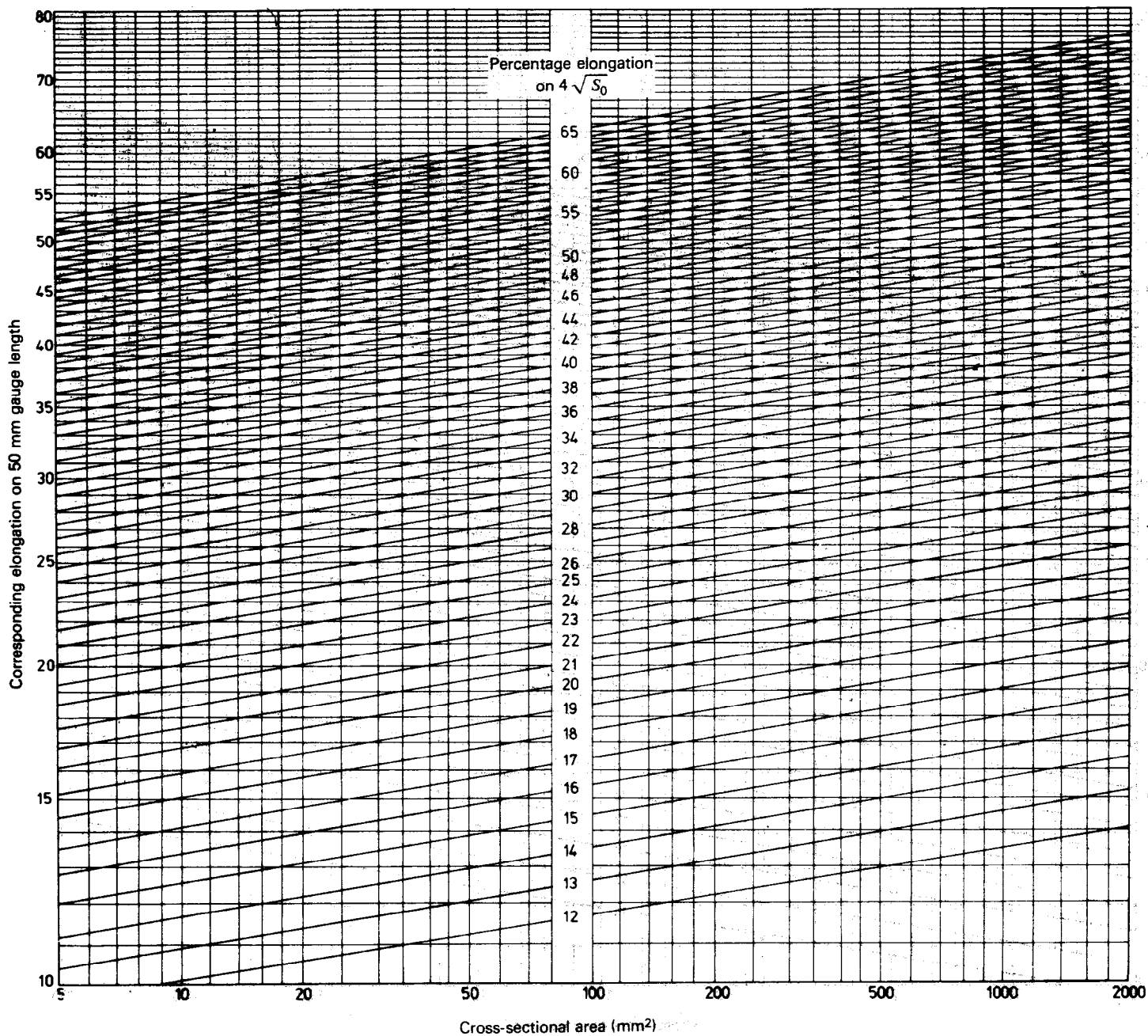


Figure 3 — Conversions between $4\sqrt{S_0}$ and 50 mm gauge length

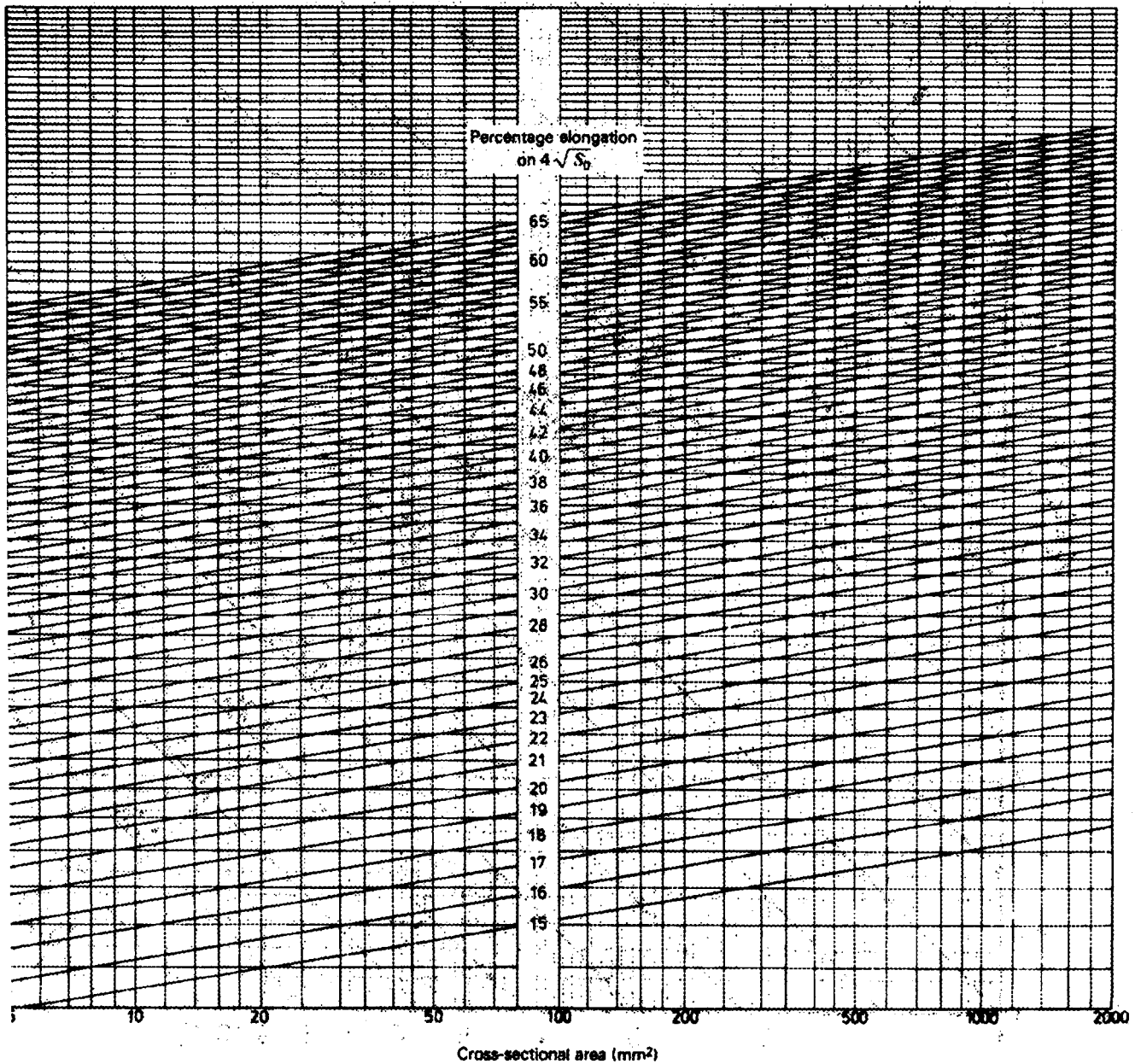


Figure 4 — Conversions between $4\sqrt{S_0}$ and 200 mm gauge length

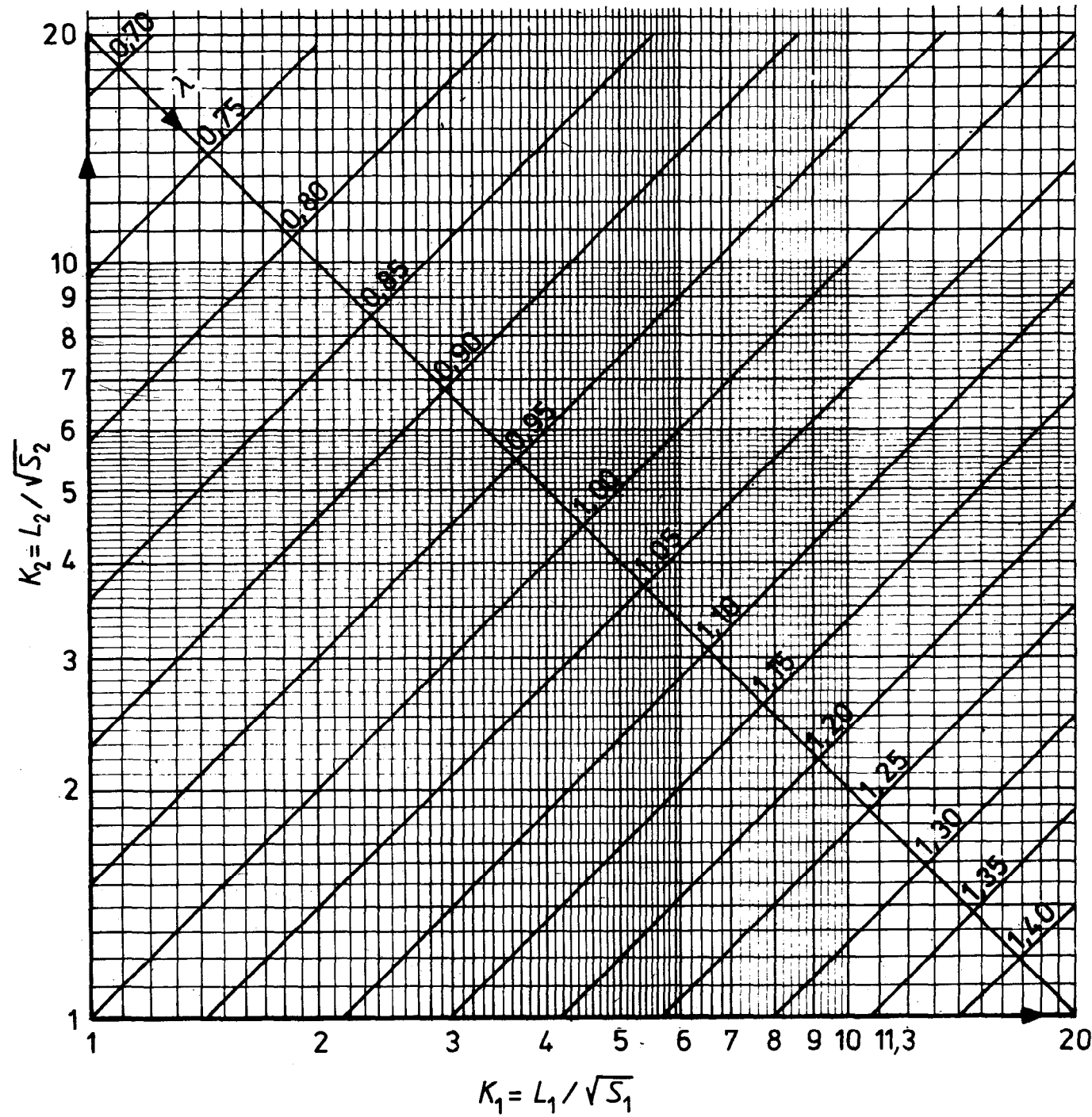


Figure 5 — Conversions of elongation values

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